BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 2000000.00

ame of Work: Detailed Estimate for Providing and Laying PVC pipelines and additional GI Pipes and ump and Motors to existing borewells in Ward no. 06 Byatarayanapura Sub division

l o	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings17.50 HP 30 stage (P.NO-XXXVII I NO 22 PWD SR 16-17)	No							
	17.5 HP 30 Stage		2				**2**	70685.00	**141370.00**
	Basic Rate	70685.00							
2	Providing, laying & jointing GI pipes confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc,. complete 'A' grade(excluding cost of fittings)b50mm dia GI pipe (SR 16-17 PWD, P.No.XVII Sl.no. 509)	Rmtr							
			1	800.00			**800.00**	340.26	**272208.00**
	Basic Rate	321.00							
	6% area weightage	19.26							
	Total	**340.26**							
3	Providing & fixing heavy duty collar (P.NO-III, I.NO-86, PRED 12-13 SR)		1	110.00			**110.00**	159.00	**17490.00**
	Basic Rate	150.00							
	6% area weightage	9.00							
	Total	**159.00**							
4	Supplying and drawing 3 core PVC Sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS: 8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 volts 4 sqmm of 56 strands 0.3mm dia (P.NO-535, I.NO-30 (c), BWSSB 12-13	Mtr							
			1	2000.00			**2000.00**	164.29	**328570.00**
	Basic Rate	159.50							
	6% area weightage	4.79							
	Total	**164.29**							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Supplying & delivery at site brand new / Essen / Lotus sunsines/Adarsh/ Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door , canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc,. completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6.50 HP to 15.00 HP with star delta starter (MR)	No.							
			10				**10.00**	14800.00	**148000.00**
6	Fabricating supplying and mounting MS box of 16 SWG suitable for floor / wall mounting, fully weather proof with provision for better hear description, (providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc,. complete box of 21600 sq cm (P.NO-530, I.NO-39 b, BWSSB SR 13-14)	Sqm							
			10	1100.00	20.00		**220000.00**	0.34	**74778.00**
	Basic Rate	0.33							
	3% area weightage	0.01							
	Total	**0.34**							
7	Supplying & delivery of brand new best make non return valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark (50mm Gate wheel Valve. (PWD SR 16-17, P.NO.XXIII, Sl.no, 659)	No's							
			10	3.00			**30.00**	1282.60	**38478.00**
	Basic Rate	1210							
	6% area weightage	72.60							
	Total	1282.60							
8	Supplying and delivery of brand new best make Gate Valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark . 50mm Gate Valve for distributer pipeline. 50mm dia (PWD SR 16-17, P.NO.XXIV, Sl.no,	No's							
			25	3.00			**75.00**	1749.00	**131175.00**
	Basic Rate	1650							
	6% area weightage	99.00							
	Total	**1749.00**							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Supplying and fixing miniature circuit breakers/isolators in existing MCB distribution boards using necessary fixing materials and wiring complete as required, 40 to 63 Amps DP (P.NO - 526, I.NO - 13D (a), BWSSB SR 13-14)	No's							
			44	1.00			**44.00**	906.40	**39882.00**
	Basic Rate	880							
	3% area weightage	26.40							
	Total	906.40							
	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... **P No. 32/I No 3b KPWD Electrical SR 2010-11**	No.							
	63 Amps		50	3.00			**150.00**		
							150.00	150.00	**22500.00**
1	Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmmUG cable filled with necessary bitumen/ insulating compound complete with terminals, clamps, bolts nuts and washers etc, (P.NO - 555, I.NO - 16 (b) , BWSSB SR 13-14)	No's							
			25				**25.00**	271.92	**6798.00**
	Basic Rate	264							
	3% area weightage	7.92							
	Total	271.92							
2	Supplying shunt capacitor's confirming to IS 2834, 3phase 400/440 volts grade for power factor improvement of roating machinery capacitor in KVAR rating No's. (MR)	No's							
			25				25.00	1350.00	**33750.00**
3	Providing and fixing Gun Metal Gate wheel valve confirming to IS specification of approved make as per direction including all lead and lift etc,. Complete. 50mm dia (P.NO - 103, I.NO - 13.79.6, PWD SR 13-14)	No's							
			8	3.00			**24.00**	1515.80	**36379.00**
	Basic Rate	1430							
	6% area weightage	85.80							
	Total	**1515.80**							
4	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 5, I.NO - 2.3, PWD SR	Cum							
			1	1185.00	0.60	0.75	**533.25**		
							533.25	222.38	**118583.00**
	Basic Rate	189							
	Add 11% AD-Hoc	20.79							
		209.79							
	6% area weightage	12.59							
	Total	**222.38**							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.NO - 94, I.NO - 13.73.2, PWD SR 16-17)	Mtr							
			1	1185.00			**1185.00**		
							1185.00	409.46	**485206.0**
	Basic Rate	348.00							
	Add 11% AD-Hoc	38.28							
		386.28							
	6% area weightage	23.18							
	Total	**409.46**							
6	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 6, I.NO - 2.11, PWD SR 16-17)	Cum							
			1	1185.00	0.60	0.75	**533.25**		
							533.25	89.42	**47684.00**
	Basic Rate	76.00							
	Add 11% AD-Hoc	8.36							
		84.36							
	6% area weightage	5.06							
	Total	**89.42**							
7	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) **50mm** nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification	Each							
			26				26	2175.12	56553.00
	Basic Rate	2052.00							
	6% area weightage	123.12							
	Total	**2175.12**							
8	Miscesallaneous Charges	L/S							596.00
								Grand Total	2000000.00

Administrative Approval
Accorded For Rs. 25.00 lakhs only
Head of A/C P.1771
CER NO : AS/303/17 Dt.: 08/02/2018
TA CE (YNK)

Technical Sanction
Accorded For Rs. 25.00 lakhs only
Head of A/C P.1771
CER NO : TS/6681/17-18 Dt.: 16/02/2018
TA CE (YNK)

CERTIFICATE :

The work spot has been inspected and the work is found necessary.
This estimate is prepared as per PWD SR 2016-17, PRED and BWSSB SR of Rural Engineering Department
The provisions were made in this estimate are necessary and adequate.
This works come under B.B.M.P. limits.

Assistant Engineer

Executive Engineer 26/02
Bruhat Bangalore Mahanagara Palike

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike

26/02